

## Message Text

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43

ACTION SS-30

INFO OCT-01 ISO-00 CCO-00 SSO-00 NSCE-00 /031 W

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O 281555Z JUN 74

FM AMEMBASSY MOSCOW

TO SECSTATE WASHDC IMMEDIATE 381

S E C R E T MOSCOW 10186

EXDIS

E. O. 11652: GDS

TAGS: PARM, US, UR, OEXD

SUBJ: NUCLEAR TEST BAN

REF: STATE 134781

1. ROMNEY AND HERRIN HAVE REVIEWED THE IDEA OF INVERSE CALIBRATION OF TEST SITES USING EARTHQUAKE SOURCES (REFTEL STATE 134781). COMMENTS ARE AS FOLLOWS:

A. THIS METHOD WOULD NOT CALIBRATE ANY PARTICULAR NET WORK SINCE THE EARTHQUAKES WOULD NOT OCCUR AT THE SEISMIC STATIONS OF THE VERIFICATION NETWORK. THERE WOULD BE NO TRUE INVERSE PATH CALIBRATION.

B. THIS METHOD DOES NOT PROVIDE ANY INFORMATION ON THE COUPLING FACTOR FOR UNDERGROUND NUCLEAR EXPLOSIONS AT THE TEST SITE.

C. EARTHQUAKES ARE SOURCES WHICH GIVE RISE TO LARGE AZIMUTHAL VARIATIONS IN THE AMPLITUDE OF RADIATED SEISMIC WAVES. IT IS NOT CLEAR IT IS POSSIBLE TO REMOVE THESE EFFECTS FROM THE CALIBRATION PROCESS.

D. WE ANTICIPATE MANY SERIOUS POLITICAL AND PRACTICAL PROBLEMS RELATED TO INSTALLATION OF A TAMPER-PROOF SEISMIC STATION ON THE SOVIET TEST SITE.

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2. ROMNEY AND HERRIN DO NOT BELIEVE THE CALIBRATION METHOD

DESCRIBED IN REFTEL, PARA 15, WOULD BE OF ANY SIGNIFICANT  
VALUE IN IMPROVING ESTIMATES OF YIELDS BY SEISMIC MEANS.

STOESSEL

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## Message Attributes

**Automatic Decaptoning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** LIMITED TEST BAN TREATY, DATA, NUCLEAR TEST, POLICY, SEISMOLOGY, MEETINGS, NEGOTIATIONS, NUCLEAR EXPLOSIONS, NUCLEAR TESTS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 28 JUN 1974  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** RELEASED  
**Disposition Approved on Date:**  
**Disposition Authority:** BoyleJA  
**Disposition Case Number:** n/a  
**Disposition Comment:** 25 YEAR REVIEW  
**Disposition Date:** 28 MAY 2004  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
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**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** n/a  
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**Executive Order:** GS  
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**Review Action:** RELEASED, APPROVED  
**Review Authority:** BoyleJA  
**Review Comment:** n/a  
**Review Content Flags:**  
**Review Date:** 16 APR 2002  
**Review Event:**  
**Review Exemptions:** n/a  
**Review History:** RELEASED <16 APR 2002 by garlanwa>; APPROVED <24 MAR 2003 by BoyleJA>  
**Review Markings:**

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30 JUN 2005

**Review Media Identifier:**  
**Review Referrals:** n/a  
**Review Release Date:** n/a  
**Review Release Event:** n/a  
**Review Transfer Date:**  
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**TAGS:** PARM, OEXC, UR, US  
**To:** STATE  
**Type:** TE  
**Markings:** Declassified/Released US Department of State EO Systematic Review 30 JUN 2005